



together we construct the future

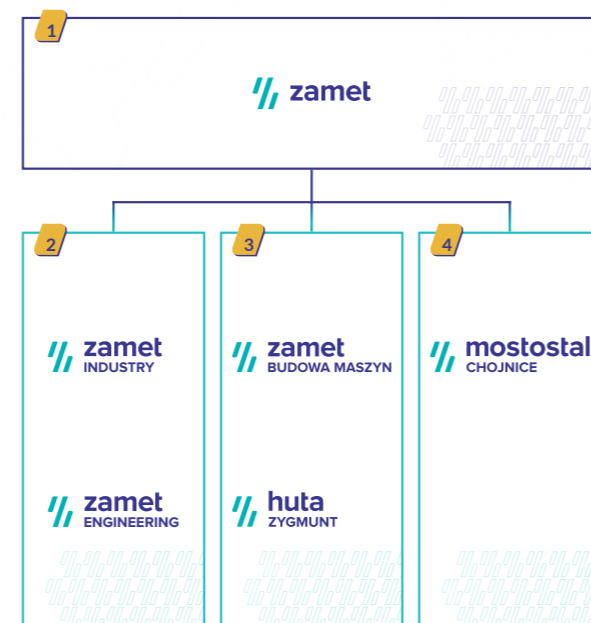
## About us

The Zamet Group is a global producer of large-size steel structures, machines and equipment for the industry. The Capital Group consists of Zamet (a holding company) listed on the Warsaw Stock Exchange and production companies: Zamet Industry, Zamet Budowa Maszyn and Mostostal Chojnice. The Zamet Group is part of TDJ, a Polish family-owned investment company, building long-term value in the areas of Equity, Venture, Estate, Finance and Foundation.

The Zamet Group's mission is to build value in the industry and a better future for its employees and business partners. In the pursuit of the economic goals, we always follow ethical rules and timeless values that we use to build the Zamet Group community.



- 4 production plants with a total area approx. **103 900** m<sup>2</sup>
- Around **1000** employees, where over **100** are qualified welders
- Our projects **on every continent** of the world
- Over **120** largest subsea projects in the world contain our structures
- Over **55** thousand tons of steel structures left our plants in recent years



## Zamet Industry

located in Piotrków Trybunalski in Poland, is one of the leading manufacturer of large-size steel structures, machines and equipment for industry. The company provides equipment and structures for subsea Oil & Gas extraction, mining and energy industries as well as cranes and handling equipment. Having on site a hall for clean assembly devices produced in our plant are equipped with electrical and hydraulic control systems and they have to pass functional tests before release. We also offer services such as metal cutting, welding, mechanical treatment, anti-corrosion protection and services in area of Detail Engineering, 3D measurements and non-destructive testing.

The origins of the company date back to the 50s, when in 1956 the Pioma Mining Machinery Factory was established in Piotrków Trybunalski - for many years one of the key supplier for the Polish mining industry, on whose basis our company functions and develops. Since the establishment of the plant, we have been continuously delivering the technologically complex projects for the largest customers from Poland and around the world.

### WE ARE INVOLVED

in various challenging projects, where the key aspects are quality of delivered products, professionalism and credibility. For this reason, for many years we have been trusted partner for global leaders. Large-size structures, machines and equipment produced in our plant, operate all over the world: on the North Sea, Barents Sea, Atlantic Ocean, the coast of Angola, the Republic

of Congo, Brazil, Malaysia and many other places in the world.

Zamet Industry is about 300 people, including: engineers, technologists, welders, specialists in the field of anti-corrosion protection, managers, locksmiths, fitters, CNC operators and quality controllers.



We are in the small group of companies that have many years of experience in the production of prototype structures and equipment for the Oil & Gas Industry, especially for the Subsea and Offshore sectors. **Over 120 of the largest subsea extracting projects in the world** use the equipment produced in our plant in Piotrków.

We specialize in production of subsea constructions (Connection System, Subsea Trees) as well as offshore equipment for drilling & production platforms and FPSO (Tubular / Rising Feeding Machines, lifting and anchoring devices). All constructions and equipment produced for the Oil & Gas sector are based on technical documentation provided by our customers. However, our advantage is, that we can offer our customers technical solutions that optimize the production process and reduce the costs. Our production is individualized due to specific and very often unusual requirements of our customers. The devices manufactured in Zamet Industry can be equipped with hydraulic and electrical systems. We also provide functional tests before release carried out under the supervision of our engineers and the final user.



We are one of the leading domestic manufacturers of vertical conveying equipment for deep-coal mines. In this assortment group, we offer rope pulleys intended for use in mining hoist towers, shaft cages intended for transporting people, mine cars or lowering equipment and materials for the pit down as well as skips intended for vertical (shaft) transport of spoil in underground mines. We also supply machines and equipment for mechanical treatment and enrichment of minerals (including filters, jigs, settlers, enrichments). Our equipment for mechanical mineral processing is individually adapted to the operating conditions in processing plants. The equipment's construction strictly depends on the technology of enriching the spoil. These units are especially dedicated to coal mines. We produce machines and equipment for the mining sector based on our own technical documentation. We are also able to provide service and spare parts for the whole life of the equipment.



The fully equipped production facility in Piotrków Trybunalski as well as the expert knowledge and qualifications of our engineers enable us to offer independent services in the field of:

1. **Metal cutting** using gas, acetylene and oxygen burners, as well as plasma cutting with a 3D head, water cutting PTV CAM / CAD;
2. **Welding of various materials** (including austenitic stainless steel, super duplex, weldox 700) and methods (including according to EN 288-3, EN ISO 15614-1, DNV-OS-C401, DNV, LR regulations, GL, NORSOK M-101, NORSOK M-601, LAME, CWB);
3. **Large CNC mechanical processing;**
4. **Comprehensive corrosion protection** (including under the Frosio inspection);
5. **3D measurements and NDT tests.**



Thanks to our technical capabilities and qualified staff of engineers and specialists we are able to produce, assemble, equip with hydraulic and electrical systems as well as to perform movement tests for large-size materials handling equipment of various applications. The equipment, that may weight from several hundred to several thousand tons and may reach from a few to dozen meters, are used for loading, unloading and transporting loose materials. They are dedicated to quaysides, power stations and heat power stations. We produce material handling machines based on documentation provided by our customers. We offer equipment such as port loading and unloading systems, stacking machines, portal scrapers and wagon tippers for power industry.

Within material handling industry we also offer manufacturing of cranes, gantries and winches, which are used in ports and material handling terminals as well as on drilling platforms and vessels.

#### ZAMET INDUSTRY OFFER

##### STRUCTURES MANUFACTURING FOR OIL&GAS SECTOR

- X-mas trees
- Connection systems
- Oil Rig/FPSO equipment
- Offshore structures

##### FOR MATERIAL HANDLING SECTOR

- Cranes
- Winches
- Ship loading and unloading devices

##### FOR MINING AND ENERGY SECTORS

- Stackers
- Bucket-wheel excavators
- Wagon tippers
- Vertical conveying equipment

##### FOR OTHER SECTORS

- Cement plants
- Refineries
- Others

##### ZAMET ENGINEERING

##### DETAIL ENGINEERING

- Engineering consulting service for Oil&Gas sector

##### HYDRAULICS SYSTEMS

- Installation of hydraulics systems

##### ELECTRICAL CONTROL SYSTEMS

- Installation of electrical control systems

##### FACTORY ACCEPTANCE TESTS

##### LABORATORY

##### 3D MEASUREMENT

##### DESIGNING EQUIPMENT FOR MINING SECTOR

##### RESEARCH & DEVELOPMENT

##### DEDICATED SOLUTIONS

##### FOR MINING SECTOR

- Skips and cages
- Head-pulleys
- Equipment for minerals processing and enriching
- Gantries

##### SPARE PARTS

##### SERVICES AND MODERNISATION

##### OTHER SERVICES

##### METAL CUTTING

- Oxygen
- Acetylene
- Gas
- PTV CAM CAD water cutting
- Plasma with 3d chamfering

##### MACHINING

##### WELDING

EN ISO 15614-1, NORSOK M-101, DNVGL, LR, ISO 4063 MET.135.136, 138, 141; (121) 135/121 GRUPY MAT. 1,2,3,7,8,10 WG ISO/TR 15608.

##### ANTICORROSION PROTECTION

NORSOK M-501, PN EN-ISO 12944, NS 476 - FROSIO LEVEL III

##### NON-DESTRUCTIVE TESTING

##### 3D MEASUREMENT

Installation components of  
subsea oil extraction



Skip



Crane undercarriage



Material handling device



# Zamet Industry

– *production capabilities*

## MACHINERY PARK

The machinery in Piotrków Trybunalski is over 34,500 sq m of production area. Our machines include numerically controlled horizontal drilling and milling machines: Juaristi, Union PR150 and Union PCR 150, turning and boring lathes, draft and screw-cutting and facing lathes. The equipment also includes shot-blasting chambers, fully automated painting booths and an assembly-testing site with a test tower. Our capabilities enable production of high degree industrial processing and technologically advanced constructions with very high quality requirements. The key processes are welding, anticorrosion protection and precision assembly, which complements precise machining.

Our quality is confirmed, among others certificates in the following standards: ISO TS 29001, ISO 9001, ISO 14001, EN 1090-1, OHSAS 18001, Welding Institute, DNV-GL, PN-EN ISO 3834-2.

## MACHINING

In our offer we also have a large CNC machining.

### Our main equipment:

#### 1. Juaristi TS5 MG30 CNC Machining Center SIN840D

[X] 6000 mm – horizontal level ride  
[Y] 3500 mm – vertical level ride  
[Z] 2500 mm – spindle extension  
[W] 1000 mm – linear spindle alignment  
2500×4000 mm – rotary table up to 22 tons

#### 2. Union PRC150 CNC + Utronic Center

[X] 11000 mm – horizontal level ride  
[Y] 3000 mm – vertical level ride  
[Z] 1000 mm – spindle extension  
[W] 700 mm – linear spindle alignment  
150 mm – spindle diameter  
2500×4000 mm – rotary table up to 22 tons

#### 3. Union PR150 CNC SIN840D Machining Center

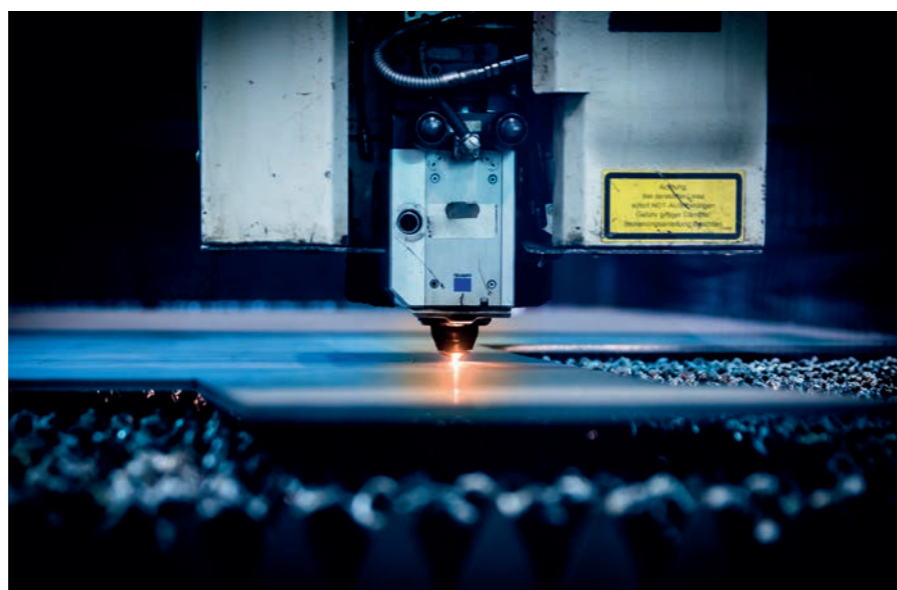
[X] 14000 mm – horizontal level ride  
[Y] 3500 mm – vertical level ride  
[Z] 1000 mm – spindle extension  
[W] 700 mm – linear spindle alignment  
150 mm – spindle diameter  
2500×2500 mm – rotary table up to 20 tons



Other heavy machines include lathes, milling machines, drills, plate and gate drills, rotors, surface and shaft grinders, hydraulic and edge presses, rollers, etc. The weight of large-size elements can reach up to 80 tons and the turning diameter can reach from 0,03 m to 3,2 m.

## MATAL CUTTING

We offer metal cutting services with gas and oxygen burners, plasma cutting with a 3D head and water cutting PTV CM / CAD. We have a Plasma cutter Onyx Vortex 3D FL ECKERT with the possibility of cutting sheets measuring 3000 × 12000 mm with the use of the Kiellberg HiFocus 360i neo plasma unit and a cutting thickness range of 0,5-80 mm depending on the material.



## CRANES LIFTING CAPACITY

We have overhead cranes with a lifting capacity of 40 + 10 tons, 20 + 20 tons, 16 + 16 tons, 15 tons, 12.5 + 12.5 tons, 10 + 10 tons, 10 tons, 8 tons, 5 + 5 tons, 5 tons, 4.5 tons, 3 + 3 tons and 3 tons, which allow to lift elements weighing up to 55 tons (tandem) up to a height of 14.2 m. We are also able to lift items weighing 80 tons (and more) using self-propelled cranes, thanks to cooperation with a company offering such services.

## ANTICORROSION

We offer:

### 1. Shot blasting chambers and painting booths

- **blasting chamber no. 1** – 5m wide × 4 m high × 15 m long,

- **blasting chamber no. 2** – 44.5 m wide × 4.5 m high × 25 m long
- **painting chamber no. 1** – 5.9 m wide × 5.8 m high × 45 m long – including sectional doors, the possibility of dividing the cabin into 4 sections,
- **paint chamber no. 2** – 5.8 m wide × 5.8 m high × 50 m long – including sectional doors, the possibility of dividing the cabin into 3 sections thanks to that we can offer complex anticorrosion services under Frosio inspection.

## TESTS

We have qualified personnel to carry out NDT tests (non-destructive testing):

- **VT** – visual tests;
- **PT** – penetration tests;
- **MT** – magneto-powder tests;
- **UT** – ultrasonic examination.

We also carry out RT (radiography) tests at the plant. The tests are performed as part of our service by an external company.

## 3D MEASUREMENT

For 3D measurements we use the following devices in Zamet Industry:

- **Laser-Tracker** - AT-403 Leica (working temperature from -15 to 45 degrees / measuring range with a diameter of 160 meters);
- **Measuring arm** – Romer 75-30 (measuring range with a diameter of 3 meters / measuring accuracy 0.02 mm);



- **Industrial total station** – Leica TDA 5005 (measuring range with a diameter of 120 meters / measuring accuracy 0.2 mm).

**Dimensions of the testing site** – 25 × 35 m  
**Load capacity** – 11 t/m<sup>2</sup>

## CLEAN ASSEMBLY HALL

Our facility also has a modern clean assembly hall of 1,400 m<sup>2</sup>, which provides the possibility of installing specialized hydraulic and electrical systems and other mechanisms in non-standard and large-size structures and machines.

## ASSEMBLY - TESTING SITE

On the Zamet Industry site we have assembly and testing site for large-size steel structures. The site is equipped with a tower construction as a technological aid and allows testing outside the production hall.



## Zamet Engineering

is a brand that provides specialized engineering consulting services. The idea is to highlight the unique and specialized competences of our company in the areas of:

- detail engineering, that support the execution of structures produced based on entrusted documentation,
- designing tailored solutions for mining sector, such as vertical transport equipment and mineral enrichment machines and equipment.

Zamet Engineering team provides also research and development activities.

**Detail Engineering** is a service dedicated to customers from Oil&Gas and material handling equipment sectors. Zamet Industry offers to its customers not only the ability to produce specific structures, but also to optimize technical documentation, including design, which reduces the cost

of manufacturing or improving the functionality of devices. Thanks to this, our customers gain an added value, which distinguishes Zamet Industry among other companies that offer only the execution of the structure based on the provided technical documentation.



### Detail engineering includes activities:

- Preparation of retail documentation that enables implementation of production processes based on the provided assumptions, 3D model or assembly drawings,
- Structural analysis in terms of welding processes, adjustment to regulations and standards, proposing technical changes to optimize manufacturing costs,
- Assessment of the functionality of the structure in terms of its subsequent operation,
- Implementation of new manufacturing technologies that have impact on design of the constructed structure

Analysis of material changes that reduce construction costs,

- Analysis of geometrical deviations in accordance with the standard, their applicability, etc.,
- Calculations and strength analyzes for basic construction elements and simple solutions,
- Implementation analysis regarding construction detachment including reduction of material costs related to optimization of distributions for parts to be cut (gas, plasma and water cutting),

unification of thickness of materials used, etc.

- Analysis concerning corrosion protection, application methods and production technologies,
- Analysis of milling machining processes, optimization of its execution and construction changes to reduce costs, ensuring the feasibility of real implementation of the said process,
- Optimization of the functionality of the structure based on geometry analysis with a focus on 3D measurements,
- Participation in design processes based on customer's guidelines.

**Zamet Industry**

**Spółka z ograniczoną odpowiedzialnością sp.k.**

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